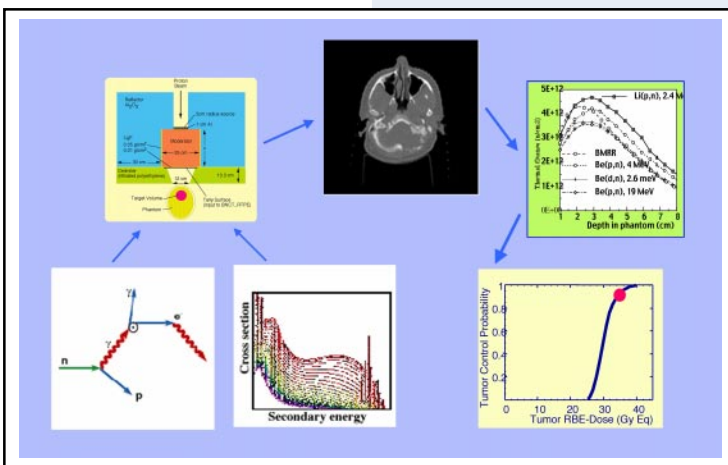


Neutronics Computational Tools for Medicine and Industry

- Actual WMD technologies adapted to life-saving procedures
 - Nuclear particle transport code combined with nuclear & atomic interaction databases results in 3-dimensional neutronics algorithm
 - New computational tool is accurate, fast, highly-reliable, cost-effective



- Immediate medical application
 - Enhanced boron neutron capture therapy computes tumor dose more accurately, economically
 - Computation engine in tabletop computer allows faster treatment/therapy planning for cancer patients

- Potential industrial applications include neutron beam lines for fission reactors; industrial material processing; anti-terrorist/explosives detection